

### Abstract of the Disclosure

An object of the present invention is to provide a method for suppressing peak power at a high encoding  
5 rate in a multi-carrier transmission system.

The present invention provides a transmitter for transmitting a multi-carrier signal, in which when generating 128 patterns used to suppress the peak power of 8-bit sub-carrier mapping signals from 7-bit  
10 information bits in a encoding unit 9, a sub-carrier generation unit 11, for example, divides the signal point of QPSK modulation into orthogonal groups, generates a sub-carrier mapping signal in which a part of sub-carriers is dependent on the signal point of  
15 another sub-carrier and a receiver for receiving such a multi-carrier signal.

10072065-020002